

Notice of Allowability

Application No.

10/510,338

Examiner

DHAVAL PATEL

Applicant(s)

GRANSTROM ET AL.

Art Unit

2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/28/2008.
2. ☒ The allowed claim(s) is/are 1-5,7-9,11-14,16,18-34 and 36-39.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>8/8/2008</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

1. Examiner has acknowledged amendment filed on 5/28/2008.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Hyung Sohn on 8/8/2008.

In claims:

Claim 1, line 12; replace **"second power"** with **--said second power--**.

Claim 1, line 34; replace **"second digital signal"** with **--said second digital signal--**.

Claim 1, line 35; replace **"second means"** with **--said second means--**.

Claim 11, line 8; replace **"said sensed power"** with **--said sensed powers--**.

Claim 11, line 9; replace **"output"** with **--outputs--**.

Claim 11, line 9; replace **"second power amplifier"** with **--said second power amplifier--**.

Claim 13; line 2; replace **"second constant envelope"** with **--said second constant envelope--**.

Claim 14, line 8; replace **"second"** with **--said second--**.

Claim 14, line 14; replace **“a constant envelope modulation”** with **--said constant envelope modulation--**.

Claim 14, line 18; replace **“a non-constant envelope modulation”** with **--said non-constant envelope modulation--**.

Claim 14; line 21; replace **“a response”** with **--said response--**.

Claim 14, line 22; replace **“a request for a constant envelope modulation”** with **--said request for said constant envelope modulation--**.

Claim 14, line 23; replace **“a non-constant”** with **--said non-constant--**.

Claim 14, line 25; replace **“a response”** with **--said response--**.

Claim 14; lines 25-26; replace **“a request for a non-constant envelope modulation”** with **--said request for said non-constant envelope modulation--**.

Claim 14, line 33; replace **“second amplified”** with **--said second amplified--**.

Claim 14, lines 36-37; replace **“a request for a non-constant envelope modulation”** with **--said request for said non-constant envelope modulation--**.

Claim 14, line 38; replace **“a second”** with **--said second--**.

Claim 16, lines 2-3; replace **“a request for a non-constant envelope modulation”** with **--said request for said non-constant envelope modulation--**.

Claim 16, line 3; replace **“a second”** with **--said second--**.

Claim 20, line 3; replace **"a constant modulation signal"** with **--constant envelope modulation signals--**.

Claim 23, line 3; replace **"second modulating"** with **--said second modulating--**.

Claim 25, line 2; replace **"phase"** with **--said phase--**

Claim 25, line 4; replace **"a non-constant"** with **--said non-constant--**

Claim 26, line 2; replace **"phase"** with **--said phase--**

Claim 26, line 3; replace **"a non-constant"** with **--said non-constant--**

Claim 27; line 3; insert **"said"** before **"second"** at the beginning of the line

Claim 27, line 5; replace **"second"** with **--said second--**.

Claim 30, line 3; replace **"second"** with **--said second--**.

Claim 34; line 14; replace **"second"** with **--said second--**.

Claim 34, line 15; replace **"second"** with **--said second--**.

Claim 34, line 20; replace **"second"** with **--said second--**.

Claim 34, line 21; replace **"second"** with **--said second--**.

Claim 36, line 2; replace **"second"** with **--said second--**.

Claim 39, line 3; replace **"second"** with **--said second--**.

Allowable Subject Matter

3. Claims 1-5,7-9, 11-14, 16, 18-34, 36-39 are allowed.

The following is an examiner's statement of reasons for allowance:

The present invention comprises a multi modulation transmitter system for constant envelope as well as non-constant envelope modulation schemes and switching between different modulation schemes. Furthermore, system comprises monitoring a power and adjusts the phase shift of the analogue signal generator in response to sensed power. The closest prior arts Heidman, Daly and Moon, as a whole, fails to disclose the limitation a first .power monitor sensing a. total power to said transmitter device or a quality directly related and a phase-shifter connected to said first ,power monitor arranged for causing a phase shift of an analogue signal generated based on said sensed power and providing the same signal to both modulation units and receiving the same instructions of a constant envelope modulation, allowing transmitter coherent combining, these limitations has been added in to independent claims, render the claims allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

/Dhaval Patel/

Examiner, Art Unit 2611

8/8/2008

/Shuwang Liu/

Supervisory Patent Examiner, Art Unit 2611